

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in this application.

**Listing of Claims:**

Claim 1 (Currently Amended).            A C3H x C57 mouse whose genome comprises a transgene comprising a nucleotide sequence operably linked to a ~~ees.Tet~~ Syrian hamster prion protein gene promoter and encoding a heterologous human amyloid precursor protein 695 (APP695) polypeptide wherein the lysine residue at position 670 is substituted by asparagine, the methionine residue at position 671 is substituted by leucine and the valine residue at position 717 is substituted by phenylalanine, wherein said promoter directs central nervous system or neuronal expression of said transgene and wherein said mouse displays abnormal A $\beta$  deposition in its central nervous system.

Claim 2 (Cancelled).

Claim 3 (Currently Amended).    The ~~transgenic~~ C3H x C57 mouse of claim 1 wherein the mouse is a (C3H x C57BL6) x C57 mouse.

Claim 4 (Cancelled).

Claim 5 (Previously Presented). The C3H x C57 mouse of claim 1 wherein the mouse displays abnormal A $\beta$  deposition in its central nervous system by 3 months of age.

Claim 6 (Previously Presented). The C3H x C57 mouse of claim 1 wherein the mouse displays an appearance of Alzheimer's Disease-related pathology by 3 months of age.

Claim 7 (Currently Amended). A ~~transgenic~~ mouse having the C3H x C57 mouse of claim 1 as an ancestor.

Claims 8-23 (Cancelled).

Claim 24 (Currently Amended). A method of producing a C3H x C57 mouse that displays abnormal A $\beta$  deposition in its central nervous system comprising:

(a) introducing into a fertilized oocyte of said mouse a transgene comprising a nucleotide sequence operably linked to a ~~eos-Tet~~ Syrian hamster prion protein gene promoter and encoding a heterologous human amyloid precursor

protein 695 (APP695) polypeptide wherein the lysine residue at position 670 is substituted by asparagine, the methionine residue at position 671 is substituted by leucine and the valine residue at position 717 is substituted by phenylalanine and wherein said ~~cos-Tet~~ Syrian hamster prion protein gene promoter directs central nervous system or neuronal expression of said transgene;

(b) transplanting said fertilized oocyte into a pseudopregnant mouse;

(c) allowing said fertilized oocyte to develop into a live born offspring; and

(d) selecting an offspring where its genome comprises a transgene comprising a nucleotide sequence operably linked to a promoter and encoding a heterologous amyloid precursor protein 695 (APP695) polypeptide wherein the lysine residue at position 670 is substituted by asparagine, the methionine residue at position 671 is substituted by leucine and the valine residue at position 717 is substituted by phenylalanine and wherein the transgene is expressed.

Claims 25-27 (Cancelled).

Claim 28 (Currently Amended).          A vector  
comprising the nucleotide sequence of claim 27 operably linked  
to a ~~eos-Tet~~ Syrian hamster prion protein gene promoter.

Claim 29-37 (Canceled).

Claim 38 (Currently Amended).          The C3H x C57  
~~transgenic~~ mouse of claim 1 wherein the mouse is a C3H x  
C57BL6 mouse.

Claim 39 (Currently Amended).          The C3H x C57  
~~transgenic~~ mouse of claim 24 wherein the mouse is a C3H x  
C57BL6 mouse.